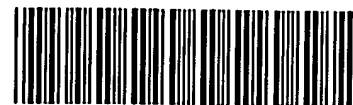


0826

#8



OICE

RAW SEQUENCE LISTING

DATE: 08/28/2002

PATENT APPLICATION: US/10/050,050

TIME: 09:59:25

Input Set : N:\Crf3\RULE60\10050050.raw

Output Set: N:\CRF4\08282002\J050050.raw

SEQUENCE LISTING

ENTERED

3 (1) GENERAL INFORMATION:

5 (i) APPLICANT: COHEN, CHARLES M.
6 CHARETTE, MARC F.
7 KUBERASAMPATH, THANGAVEL
8 RUEGER, DAVID C.
9 OPPERMAN, HERMANN
10 PANG, ROY H.L.
11 OZKAYNAK, ENGIN
12 SMART, JOHN E.

14 (ii) TITLE OF INVENTION: MORPHOGEN TREATMENT FOR LIMITING
15 PROLIFERATION OF EPITHELIAL CELLS.

17 (iii) NUMBER OF SEQUENCES: 33

19 (iv) CORRESPONDENCE ADDRESS:

20 (A) ADDRESSEE: PATENT ADMINISTRATOR, CREATIVE BIOMOLECULES
21 (B) STREET: 45 SOUTH STREET
22 (C) CITY: HOPKINTON
23 (D) STATE: MA
24 (E) COUNTRY: USA
25 (F) ZIP: 01748

27 (v) COMPUTER READABLE FORM:

28 (A) MEDIUM TYPE: Floppy disk
29 (B) COMPUTER: IBM PC compatible
30 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
31 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

33 (vi) CURRENT APPLICATION DATA:

C--> 34 (A) APPLICATION NUMBER: US/10/050,050
C--> 35 (B) FILING DATE: 15-Jan-2002
36 (C) CLASSIFICATION:

38 (vii) PRIOR APPLICATION DATA:

40 (A) APPLICATION NUMBER: US/08/461,113
41 (B) FILING DATE:
43 (A) APPLICATION NUMBER: US 08/445,882
44 (B) FILING DATE: 22-MAY-1995

46 (viii) ATTORNEY/AGENT INFORMATION:

47 (A) NAME: FENTON Esq., GILLIAN M.
48 (B) REGISTRATION NUMBER: 36,508
49 (C) REFERENCE/DOCKET NUMBER: CRP-074DV

51 (ix) TELECOMMUNICATION INFORMATION:

52 (A) TELEPHONE: (508) 435-9001
53 (B) TELEFAX: (508) 435-6951

56 (2) INFORMATION FOR SEQ ID NO: 1:

58 (i) SEQUENCE CHARACTERISTICS:

RAW SEQUENCE LISTING

DATE: 08/28/2002

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Input Set : N:\Crif3\RULE60\10050050.raw

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59      (A) LENGTH: 97 amino acids
60      (B) TYPE: amino acid
61      (C) STRANDEDNESS: single
62      (D) TOPOLOGY: linear
64      (ii) MOLECULE TYPE: protein
67      (ix) FEATURE:
68          (A) NAME/KEY: Protein
69          (B) LOCATION: 1..97
70          (D) OTHER INFORMATION: /label= GENERIC-SEQ-1
71 /note= "EACH XAA INDICATES ONE OF THE 20 NATURALLY OCCURRING
72 L-ISOMER, ALPHA-AMINO ACIDS, OR A DERIVATIVE THEREOF"
75      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
W--> 77      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
78          1          5          10          15
W--> 80      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa
81          20          25          30
W--> 83      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
84          35          40          45
W--> 86      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Cys Xaa Xaa
87          50          55          60
W--> 89      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
90          65          70          75          80
W--> 92      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Cys
93          85          90          95
W--> 95      Xaa
C--> 112 (2) INFORMATION FOR SEQ ID NO: /label= GENERIC-SEQ-2
113          /note= "EACH XAA INDICATES ONE OF THE 20 NATURALLY
OCCURRING
114          L-ISOMER, ALPHA-AMINO ACIDS, OR A DERIVATIVE THEREOF"
100      (i) SEQUENCE CHARACTERISTICS:
101          (A) LENGTH: 97 amino acids
102          (B) TYPE: amino acid
103          (C) STRANDEDNESS: single
104          (D) TOPOLOGY: linear
106      (ii) MOLECULE TYPE: protein
109      (ix) FEATURE:
110          (A) NAME/KEY: Protein
111          (B) LOCATION: 1..97
117      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
W--> 119      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
120          1          5          10          15
W--> 122      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa
123          20          25          30
W--> 125      Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
126          35          40          45
W--> 128      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Cys Xaa Xaa
129          50          55          60
W--> 131      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
132          65          70          75          80
W--> 134      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Cys

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RAW SEQUENCE LISTING

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Input Set : N:\Crif3\RULE60\10050050.raw

Output Set: N:\CRF4\08282002\J050050.raw

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135                      85                      90                      95
W--> 137      Xaa
140 (2) INFORMATION FOR SEQ ID NO: 3:
142      (i) SEQUENCE CHARACTERISTICS:
143          (A) LENGTH: 97 amino acids
144          (B) TYPE: amino acid
145          (C) STRANDEDNESS: single
146          (D) TOPOLOGY: linear
148      (ii) MOLECULE TYPE: protein
151      (ix) FEATURE:
152          (A) NAME/KEY: Protein
153          (B) LOCATION: 1..97
154          (D) OTHER INFORMATION: /label= GENERIC-SEQ-3
155 /note= "WHEREIN EACH XAA IS INDEPENDENTLY SELECTED FROM A GROUP
156 OF ONE OR MORE SPECIFIED AMINO ACIDS AS DEFINED IN THE
157 SPECIFICATION "
160      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
W--> 162      Leu Tyr Val Xaa Phe Xaa Xaa Xaa Gly Trp Xaa Xaa Trp Xaa Xaa Ala
163          1              5              10              15
W--> 165      Pro Xaa Gly Xaa Xaa Ala Xaa Tyr Cys Xaa Gly Xaa Cys Xaa Xaa Pro
166          20              25              30
W--> 168      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asn His Ala Xaa Xaa Xaa Leu
169          35              40              45
W--> 171      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Cys Xaa Pro
172          50              55              60
W--> 174      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Xaa Xaa Xaa Xaa Xaa Xaa
175          65              70              75              80
W--> 177      Val Xaa Leu Xaa Xaa Xaa Xaa Xaa Met Xaa Val Xaa Xaa Cys Gly Cys
178          85              90              95
W--> 180      Xaa
183 (2) INFORMATION FOR SEQ ID NO: 4:
185      (i) SEQUENCE CHARACTERISTICS:
186          (A) LENGTH: 102 amino acids
187          (B) TYPE: amino acid
188          (C) STRANDEDNESS: single
189          (D) TOPOLOGY: linear
191      (ii) MOLECULE TYPE: protein
194      (ix) FEATURE:
195          (A) NAME/KEY: Protein
196          (B) LOCATION: 1..102
197          (D) OTHER INFORMATION: /label= GENERIC-SEQ-4
198 /note= "WHEREIN EACH XAA IS INDEPENDENTLY SELECTED FROM A GROUP
199 OF ONE OR MORE SPECIFIED AMINO ACIDS AS DEFINED IN THE
200 SPECIFICATION"
203      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
W--> 205      Cys Xaa Xaa Xaa Xaa Leu Tyr Val Xaa Phe Xaa Xaa Xaa Gly Trp Xaa
206          1              5              10              15
W--> 208      Xaa Trp Xaa Xaa Ala Pro Xaa Gly Xaa Xaa Ala Xaa Tyr Cys Xaa Gly
209          20              25              30

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RAW SEQUENCE LISTING

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Input Set : N:\Crf3\RULE60\10050050.raw

Output Set: N:\CRF4\08282002\J050050.raw

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W--> 211      Xaa Cys Xaa Xaa Pro Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asn His Ala
      212              35                      40                      45
W--> 214      Xaa Xaa Xaa Xaa Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      215              50                      55                      60
W--> 217      Xaa Cys Cys Xaa Pro Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Xaa Xaa
      218              65                      70                      75                      80
W--> 220      Xaa Xaa Xaa Xaa Xaa Val Xaa Leu Xaa Xaa Xaa Xaa Xaa Met Xaa Val
      221              85                      90                      95
W--> 223      Xaa Xaa Cys Gly Cys Xaa
      224              100

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(2) INFORMATION FOR SEQ ID NO: 5:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 139 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(ix) FEATURE:

(A) NAME/KEY: Protein

(B) LOCATION: 1..139

(D) OTHER INFORMATION: /note= "HOP-1 (MATURE FORM)"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

```

Ser Thr Gly Ser Lys Gln Arg Ser Gln Asn Arg Ser Lys Thr Pro Lys
1          5          10          15
Asn Gln Glu Ala Leu Arg Met Ala Asn Val Ala Glu Asn Ser Ser Ser
20         25         30
Asp Gln Arg Gln Ala Cys Lys Lys His Glu Leu Tyr Val Ser Phe Arg
35         40         45
Asp Leu Gly Trp Gln Asp Trp Ile Ile Ala Pro Glu Gly Tyr Ala Ala
50         55         60
Tyr Tyr Cys Glu Gly Glu Cys Ala Phe Pro Leu Asn Ser Tyr Met Asn
65         70         75         80
Ala Thr Asn His Ala Ile Val Gln Thr Leu Val His Phe Ile Asn Pro
85         90         95
Glu Thr Val Pro Lys Pro Cys Cys Ala Pro Thr Gln Leu Asn Ala Ile
100        105        110
Ser Val Leu Tyr Phe Asp Asp Ser Ser Asn Val Ile Leu Lys Lys Tyr
115        120        125
Arg Asn Met Val Val Arg Ala Cys Gly Cys His
130        135

```

(2) INFORMATION FOR SEQ ID NO: 6:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 139 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(ix) FEATURE:

(A) NAME/KEY: Protein

RAW SEQUENCE LISTING

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Input Set : N:\Crif3\RULE60\10050050.raw

Output Set: N:\CRF4\08282002\J050050.raw

285 (B) LOCATION: 1..139
 286 (D) OTHER INFORMATION: /note= "MOP-1 (MATURE FORM)"
 289 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
 291 Ser Thr Gly Gly Lys Gln Arg Ser Gln Asn Arg Ser Lys Thr Pro Lys
 292 1 5 10 15
 294 Asn Gln Glu Ala Leu Arg Met Ala Ser Val Ala Glu Asn Ser Ser Ser
 295 20 25 30
 297 Asp Gln Arg Gln Ala Cys Lys Lys His Glu Leu Tyr Val Ser Phe Arg
 298 35 40 45
 300 Asp Leu Gly Trp Gln Asp Trp Ile Ile Ala Pro Glu Gly Tyr Ala Ala
 301 50 55 60
 303 Tyr Tyr Cys Glu Gly Glu Cys Ala Phe Pro Leu Asn Ser Tyr Met Asn
 304 65 70 75 80
 306 Ala Thr Asn His Ala Ile Val Gln Thr Leu Val His Phe Ile Asn Pro
 307 85 90 95
 309 Asp Thr Val Pro Lys Pro Cys Cys Ala Pro Thr Gln Leu Asn Ala Ile
 310 100 105 110
 312 Ser Val Leu Tyr Phe Asp Asp Ser Ser Asn Val Ile Leu Lys Lys Tyr
 313 115 120 125
 315 Arg Asn Met Val Val Arg Ala Cys Gly Cys His
 316 130 135

C--> 332 (2) INFORMATION FOR SEQ ID NO: /note= "HOP-2 (MATURE FORM)"

320 (i) SEQUENCE CHARACTERISTICS:
 321 (A) LENGTH: 139 amino acids
 322 (B) TYPE: amino acid
 323 (C) STRANDEDNESS: single
 324 (D) TOPOLOGY: linear
 326 (ii) MOLECULE TYPE: protein
 329 (ix) FEATURE:
 330 (A) NAME/KEY: Protein
 331 (B) LOCATION: 1..139
 335 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
 337 Ala Val Arg Pro Leu Arg Arg Arg Gln Pro Lys Lys Ser Asn Glu Leu
 338 1 5 10 15
 340 Pro Gln Ala Asn Arg Leu Pro Gly Ile Phe Asp Asp Val His Gly Ser
 341 20 25 30
 343 His Gly Arg Gln Val Cys Arg Arg His Glu Leu Tyr Val Ser Phe Gln
 344 35 40 45
 346 Asp Leu Gly Trp Leu Asp Trp Val Ile Ala Pro Gln Gly Tyr Ser Ala
 347 50 55 60
 349 Tyr Tyr Cys Glu Gly Glu Cys Ser Phe Pro Leu Asp Ser Cys Met Asn
 350 65 70 75 80
 352 Ala Thr Asn His Ala Ile Leu Gln Ser Leu Val His Leu Met Lys Pro
 353 85 90 95
 355 Asn Ala Val Pro Lys Ala Cys Cys Ala Pro Thr Lys Leu Ser Ala Thr
 356 100 105 110
 358 Ser Val Leu Tyr Tyr Asp Ser Ser Asn Asn Val Ile Leu Arg Lys His
 359 115 120 125
 361 Arg Asn Met Val Val Lys Ala Cys Gly Cys His

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/050,050

DATE: 08/28/2002
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Input Set : N:\Crf3\RULE60\10050050.raw
Output Set: N:\CRF4\08282002\J050050.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos.1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23
Seq#:1; Xaa Pos.24,26,27,28,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45
Seq#:1; Xaa Pos.46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,63,64,65,66,67
Seq#:1; Xaa Pos.68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87
Seq#:1; Xaa Pos.88,89,90,91,92,93,95,97
Seq#:2; Xaa Pos.1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23
Seq#:2; Xaa Pos.24,26,27,28,30,31,32,33,34,35,37,38,39,40,41,42,43,44,45,46
Seq#:2; Xaa Pos.47,48,49,50,51,52,53,54,55,56,57,58,59,60,63,64,65,66,67,68
Seq#:2; Xaa Pos.69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88
Seq#:2; Xaa Pos.89,90,91,92,93,95,97
Seq#:3; Xaa Pos.4,6,7,8,11,12,14,15,18,20,21,23,26,28,30,31,33,34,35,36,37
Seq#:3; Xaa Pos.38,39,40,44,45,46,47,49,50,51,52,53,54,55,56,57,58,59,60,63
Seq#:3; Xaa Pos.65,66,67,68,69,70,71,72,74,75,76,77,78,79,80,82,84,85,86,87
Seq#:3; Xaa Pos.88,90,92,93,97
Seq#:4; Xaa Pos.2,3,4,5,9,11,12,13,16,17,19,20,23,25,26,28,31,33,35,36,38
Seq#:4; Xaa Pos.39,40,41,42,43,44,45,49,50,51,52,54,55,56,57,58,59,60,61,62
Seq#:4; Xaa Pos.63,64,65,68,70,71,72,73,74,75,76,77,79,80,81,82,83,84,85,87
Seq#:4; Xaa Pos.89,90,91,92,93,95,97,98,102
Seq#:15; Xaa Pos.2,3,4,5
Seq#:29; Xaa Pos.2,3,9,11,16,19,23,26,35,39,41,50,52,56,57,58,60,61,65,71
Seq#:29; Xaa Pos.73,75,80,82,84,87,89,91,97
Seq#:30; Xaa Pos.2,3,4,6,7,8,11,12,14,15,16,18,19,20,21,23,26,28,30,31,33
Seq#:30; Xaa Pos.34,35,36,37,38,39,40,44,45,46,47,48,49,50,51,52,53,54,55
Seq#:30; Xaa Pos.56,57,58,59,60,63,65,66,67,68,69,70,71,72,74,75,76,77,78
Seq#:30; Xaa Pos.79,80,82,84,85,86,87,88,90,92,93,95,97
Seq#:31; Xaa Pos.2,3,4,5,7,8,9,11,12,13,16,17,19,20,21,23,24,25,26,28,31,33
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VERIFICATION SUMMARY

DATE: 08/28/2002

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Output Set: N:\CRF4\08282002\J050050.raw

L:34 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:35 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:77 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:80 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:16
L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:32
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:48
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:64
L:92 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:80
L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:96
L:112 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:16
L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:32
L:128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:48
L:131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:64
L:134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:80
L:137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:96
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:16
L:168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:32
L:171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:48
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:64
L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:80
L:180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:96
L:205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:16
L:211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:32
L:214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:48
L:217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:64
L:220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:80
L:223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:96
L:332 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:378 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:424 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:464 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:664 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:1391 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
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L:1990 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:16
L:1993 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:32
L:1996 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:48
L:1999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:64
L:2002 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:80
L:2005 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:96
L:2030 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:2033 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:16
L:2036 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:32
L:2039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:48

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Output Set: N:\CRF4\08282002\J050050.raw

L:2042 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:64
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L:2048 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:96
L:2073 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:2076 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:16
L:2079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:32
L:2082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:48
L:2085 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:64
L:2088 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:80
L:2091 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:96